

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough; and 2. added matter is shown by underlining.

Claims 1-24 (Cancelled).

Please add new claims 25-52 as follows:

25. (New) An arrangement for the display of images of a scene or object comprising:
a transfective image display device having a front side and including a multiplicity of picture elements or pixels arranged in a matrix, with image information from several perspective views of a scene or object being displayed on the matrix;

a plane wavelength filter array arranged behind the image display device and containing a multiplicity of filter elements arranged in rows and/or columns, some of the filter elements being opaque, with the remaining filter elements being substantially transparent to light of specified wavelength ranges;

a light emitting illuminator arranged behind the wavelength filter array, the light emitted from the illuminator passing through at least a portion of the transparent filter elements and

subsequently through an assigned portion of the pixels of the image display device, so that the scene or object is visible in three dimensions;

and wherein the light incident on the front side of the image display device is used, because of the transflective properties of the image display device, to illuminate the front side in a substantially homogeneous manner, so that at least part of the scene or object is visible in two dimensions.

26. (New) The arrangement of Claim 25, wherein a second illuminator emits light on the front side of the image display device, thereby enhancing the light incident on the front side of the image display device.

27. (New) The arrangement of Claim 26 wherein the second illuminator is a planar illuminator designed as a plate-shaped light guide, the light guide receiving light from one or more laterally arranged light sources.

28. (New) The arrangement of Claim 26, wherein portions of the second illuminator are part of a touch screen, or a touch screen is arranged in front of the second illuminator or in front of the image display device.

29. (New) The arrangement of Claim 25, wherein the illuminating device arranged behind the wavelength filter array is switched off or dimmed down.

30. (New) The arrangement of Claim 25 further comprising a computing device for controlling the image display device and the illuminator.

31. (New) An arrangement for the display of images of a scene or object comprising:
an image display device including a plurality of pixels arranged in a matrix that displays image information from several perspective views of a scene or object;

a wavelength filter array containing a multiplicity of filter elements, wherein some of the filter elements are substantially transparent to light of specified wavelength ranges and a balance of the filter elements are opaque;

an illuminating device arranged behind the image display device; and

the wavelength filter array having a first and a second position,

the first position being in front of the image display device thereby causing light to pass through at least part of the pixels of the image display device and subsequently through an assigned share of the transparent filter elements and causing the scene or object to be visible in three dimensions,

the second position being not in front of the image display device, so that the light reaches the viewer passing through at least part of the pixels of the image display device, but subsequently not through the transparent filter elements of the wavelength filter array, so that at least part of the scene or object is visible to the viewer in two dimensions.

32. (New) The arrangement of Claim 31 wherein the illuminating device is a substantially planar illuminator.

33. (New) An arrangement as claimed in Claim 32, wherein the second position of the wavelength filter array is partly in front of and partly not in front of the image display device, so that only part of the light passes through at least part of the pixels of the image display device but not through substantially transparent filter elements, so that only part of the scene or object is visible to the viewer in two dimensions.

34. (New) The arrangement of Claim 32, wherein the first and second positions of the wavelength filter array are reached by a movement of the wavelength filter array.

35. (New) The arrangement of Claim 33, wherein the first and second positions of the wavelength filter array are reached by moving the wavelength filter array.

36. (New) The arrangement of Claim 32, wherein the wavelength filter array is flexible.

37. (New) The arrangement of Claim 33, wherein the wavelength filter array is flexible.

38. (New) The arrangement of Claim 37, wherein the wavelength filter array further comprises a flexible substrate.

39. (New) The arrangement of Claim 34, wherein movement of the wavelength filter array is guided at least partially around the image display device.

40. (New) The arrangement of Claim 32, wherein the wavelength filter array is shifted between the first and second positions on at least one rail.

41. (New) The arrangement of Claim 40, further comprising a knob connected to the wavelength filter array to shift the filter array.

42. (New) An arrangement for the display of images of a scene or object, comprising:

an image display device having a front face and comprising a multiplicity of pixels arranged in a matrix array that displays image information from several perspective views of a scene or object;

a wavelength filter array having a front face and comprising a plurality of filter elements, the wavelength filter array arranged in front of or behind the image display device, each of the filter elements in the filter array being substantially transparent to light of specified wavelength ranges or substantially opaque, and wherein at least every tenth filter element has photochromic, color-changing properties;

wherein the wavelength filter array substantially passes or substantially blocks light first through the filter elements and subsequently through the image display device, or first through the image display device and subsequently through filter elements, and

wherein the photochromic, color-changing filter elements having a first state and a second state, the first state causing the scene or object to be visible in three dimensions, and the second state causing the scene or object to be visible in two dimensions.

43. (New) The arrangement of Claim 42, further comprising at least one ultraviolet light source configured to irradiate the photochromic, color-changing filter elements, wherein the irradiation causes the second state of the photochromic, color-changing filter elements.

44. (New) The arrangement of Claim 43, wherein the at least one ultraviolet light source is arranged behind the wavelength filter array.

45. (New) An arrangement as claimed in Claim 43, wherein the at least one ultraviolet light source is integrated in a planar illuminating device that is arranged behind the image display device.

46. (New) The arrangement of Claim 43, wherein the at least one ultraviolet light source is arranged in front of or beside the wavelength filter array, if this is arranged in front of the image display device.

47. (New) The arrangement of Claim 42, wherein a characteristic of each of the photochromic, color-changing filter elements in the first or second state is selected from the group consisting of essentially opaque to the visible spectrum, essentially transparent to the

visible spectrum, substantially transparent to red light, substantially transparent to green light, substantially transparent to blue light, substantially transparent to yellow light, substantially transparent to magenta light, and substantially transparent to cyan light.

48. (New) The arrangement of Claim 42, wherein the image display device comprises a projection apparatus.

49. (New) The arrangement of Claim 48, further comprising:

a projection screen having a projection side;

at least two wavelength filter arrays, wherein at least every tenth filter element on each wavelength filter array has photochromic, color-changing properties, at least one wavelength filter array being arranged on the projection side of the projection screen.

50. (New) An arrangement for the display of images of a scene or object, comprising an image display device comprising a multiplicity of pixels arranged in a matrix, with image information from several perspective views of a scene or object being displayed thereupon; and

a wavelength filter array arranged in front of or behind the image display device, the filter array comprising a plurality of filter elements, each filter element being substantially transparent to light of specified wavelength ranges or substantially opaque to light,

the wavelength filter array having a first mode of operation wherein light passes first through the filter elements and then through the image display device, or first through the image

display device and then through filter elements, causing the scene or object to be displayed in three dimensions, and

the wavelength filter array having a second mode of operation wherein the filter array is replaced by a substrate that is substantially transparent to visible light, causing the scene or object to be displayed at least partially in two dimensions.

51. (New) The arrangement of Claim 50, wherein the image display device is a plasma screen, and the substrate is an electrically conductive, substantially transparent pane of glass, PMMA or laminate.

52. (New) The arrangement of Claim 50, wherein switching between the first and second modes of operation is effected by mechanical displacement of the wavelength filter array or the substrate, and wherein, in one of the two modes of operation, either the wavelength filter array or the substrate are intermediately held in a cassette.